

L 34183-65 EWT(m)/EPF(c)/T Pr-4 DJ/WE

ACCESSION NR: AT5006944

S/2982/64/000/051/0199/0206

AUTHOR: Gurevich, I. L.; Smidovich, Ye. V.; Barinov, V. Ye.; L'vova, A. I.; Khavkina, O. D.; Kiselev, B. D.; Mukharemov, A. M.; Melkumova, N. A.; Shcherbakova, V. A.

TITLE: An efficient process for the complex refining of Turkmen petroleum

SOURCE: Moscow. Institut neftekhimicheskoy i gazovoy promyshlennosti. Trudy, no. 51, 1964. Neftekhimiya, neftekhimicheskiye protsessy i neftepererabotka (Petroleum chemistry, petrochemical processes and oil refining), 199-206

TOPIC TAGS: petroleum refining, deasphalting, mazout, catalytic cracking, deparaffinization, petrolatum, ceresin

ABSTRACT: The authors studied the deasphalting of mazout and residues from petroleum refining above 500C, and attempted to determine the possibility of broadening the raw material base of catalytic cracking. The main feature of the proposed complex process of refining Turkmen petroleums for use at the Krasnovodsk refinery is the construction of a deasphalting unit and the use of the deasphaltate as the raw material for catalytic cracking. Purification by adsorption followed by deparaffinization of the deasphaltate can produce high-grade residual oils of types MS-20

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and MS-24 whose properties are equal to those of the same type of oils obtained from Azerbaijan petroleums. The adsorption purification and deparaffinization of oil distillates by methylethylketone - toluene mixtures can produce high-grade transformer, industrial, and automobile motor oils. The use of petrolatum as a raw material for the preparation of high-melting ceresins is highly recommended. A complete flow sheet of the proposed process is given. Orig. art. has: 5 tables and 1 flow sheet.

ASSOCIATION: Institut neftekhimicheskoy i gazovoy promyshlennosti, Moscow (Petro-chemical and gas industry institute)

SUBMITTED: 00

ENCL: 00

SUB CODE: FP

NO REF SOV: 000

OTHER: 000

Card 2/2

SMIDRKAL, J.

"New photogrammetric instruments from the German Federal Republic."

GEODETICKY A KARTOGRAFICKY OBZOR, Praha, Czechoslovakia, Vol. 5, no. 5, May, 1959

Monthly List of EAST EUROPEAN ACCESSIONS INDEX (EEAI), LC, Vol. 8, No. 7,  
July, 1959

Unclassified

SMIDRKAL, Josef, inz.

Use of terrain photogrammetry for surveying memorial  
buildings. Geod kart obzor 10 no. 6:142-146 Je '64.

1. Faculty of Building, Czech Higher School of Technology,  
Prague.

SMIDOWICZ, Bogdan, Mgr inz.

Some problems of recurrent infiltration of artesian well waters during dry dock constructions in Gdynia. Tech gosp morska 13 no.11:337-339 N'63.

1. Instytut Organizacji i Mechanizacji Budownictwa, Gdansk.

CZENZYK, Teresa; MICHALIK, T.; MYSLIWSKI, A.; SMIECHOWSKA, Barbara

Studies of certain histochemical reactions in brain blood  
vessels of human fetuses. Folia histochem. cytochem. (Krakow)  
3 no.2:149-160 '65.

1. Department of Histology and Embryology, Medical Academy,  
Gdansk.

CZERNYK, Teresa; SMITHSON, Barbara

Behavior of some histochemical reactions in a differentiating  
gasserian ganglion of the white rat embryo. Folia morph. (Warsz.)  
24 no.2:167-178 '65.

1. 2 Zakladu Histologii i Embriologii AM w Gdansk (Kierownik:  
prof. dr. S. Hiller).

ZEGARSKA, Zofia; SMIEJHOWSKA, Wanda

Polysaccharides in the development of the white rat's lungs.  
Acta biol. med. 5 no.1:1-5 '61.

1. Z Zakladu Histologii i Embriologii Akademii Medycznej w Gdansk  
Kierownik Zakladu: Prof. dr. Stanislaw Hiller.  
(POLYSACCHARIDES metab) (LUNGS embryol)



SMIECHOWSKA, Wanda; ZEGARSKA, Zofia

Polysaccharides in the heart development of the white rat. Acta  
biol. med. 5 no.1:6-9 '61.

1. Z Zakladu Histologii i Embriologii Akademii Medycznej w Gdansk  
Kierownik Zakladu: Prof. dr Stanislaw Hiller.  
(HEART embryol) (POLYSACCHARIDES metab)

SOKOL, Stanislaw; SMIECHOWSKA, Wanda; ZEGARSKA, Zofia

Histochemical peroperative liver examination in diseases of the digestive system and biliary tract. Polski przegl. chir. 33 no.11: 1327-1328 '61.

1. Z II Kliniki Chirurgicznej AM w Gdansk Kierownik: prof. dr  
K. Debicki i z Zakladu Histologii i Embriologii AM Kierownik: prof.  
S. Hiller. (LIVER pathol) (GASTROINTESTINAL SYSTEM surg)  
(BILIARY TRACT surg)

SOKOL, Stanislaw; SMIECHOWSKA, Wanda; ZEGARSKA, Zofia

Effect of surgical injury on the liver in the light of histochemical studies. Pol. przegl. chir. 34 no.7:675-680 '62.

1. Z II Kliniki Chirurgicznej AM w Gdansk Kierownik: prof. dr  
K. Debicki i z Zakladu Histologii i Embriologii AM w Gdansk  
Kierownik: prof. dr S. Hiller.

(LIVER)	(BIOPSY)	(SURGERY OPERATIVE)	(ALKALINE PHOSPHATASE)
	(LIPID METABOLISM)	(LIVER GLYCOGEN)	

BLACH, Kazimierz; SMIECINSKI, Wacław

Role of iron in the etiology and therapy of pregnancy anemias. Gin.  
polska 32 no.6:659-665 '61.

1. Z II Kliniki Położnictwa i Chorob Kobietych Śląskiej AM w Bytomiu  
Kierownik: prof. dr B. Stepowski.  
(PREGNANCY compl) (ANEMIA HYPOCHROMIC in pregn)

CIESIELSKI, Roman, doc. dr inz.; SMIECINSKI, Edward, mgr inz.

Survey of major designs of the Krakow Office of Designing  
Industrial Constructions in recent years. Inz i bud 20  
no.8/9:342-353 Ag-S '63.

1. Krakowskie Biuro Projektow Budownictwa Przemyslowego,  
Krakow.

SMIECINSKI, Tadeusz, inz.

Development of underground areas in cities. Gaz woda techn  
sanit 37 no.4/5:170-172 Ap-May '63.

SMIELKIEWICZ, J.

New profiles for models, p. 10. (SKRZYDLATA POLSKA, Warszawa, Vol. 11, no. 3, Jan. 1955.)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, No. <sup>4</sup>~~1~~, Jan. 1955, Uncl.

ZELAWSKA-BODAKIEWICZ, Barbara; SMIELOWSKI, Bogdan

Treatment of severe forms of late pregnancy toxemias.  
Ginek. Pol. 36 no.5:527-530 My '65.

1. Z I Kliniki Poloznictwa i Chorob Kobietych AM w Gdansk  
(Kierownik: prof. dr. med. S. Metler).



1. The first part of the paper is devoted to a review of the literature on the topic of the role of the state in the development of the economy. It is found that the state has played a significant role in the development of the economy in many countries, particularly in the case of developing countries. The state has been able to mobilize resources, provide infrastructure, and create a favorable environment for investment and growth.

deriv'ni pregledov. Glasnik. Vol. 35 no.2:291-297. Zagreb, 1941.

1. Z I Kliniki Położnictwa i Chorob Kobiecych Akademii Medycznej  
w Gdańsku (Kierownik: prof. dr. med. S. Mettler).

MIECZKOJENSKI, Jerzy; MISIĄCZKI, Bogdan

Uterus rupture. Ginek. Pol. 35 no.6:227-228 1961

2. 3 Kliniki położnictwa i Chorob Kobietych Akademii Medycy-  
nej w Gdansk (kierownika prof. dr. med. J. Meiler).

MIESZCZERSKI, Jerzy; SMIELOWSKI, Bogdan

A case of cervical pregnancy of 20 weeks. Wiad. lek. 18 no.7:  
619-622 1 Ap '65

1. Z I Kliniki Położnictwa i Chorob Kobietych Akademii Medycznej  
w Gdańsku (Kierownik: prof. dr. med. S. Metler).

SMIELOWSKI, Teodor, mgr

Professor Stefan Blachowski's artistic interests. Przegl  
psychol no. 6:59-66 '63.

SMIERZCHALSKA, K.

Fertilizer value of rock phosphate studied by using <sup>32</sup>P.  
Zemljiste biljka 11 no.1/3:553-557 '62

1. Central College of Agriculture, Warsaw, Poland.

SMIERZCHALSKA, K.

Note on the Polish-Yugoslav Symposium, Warsaw, October 22-23,  
1962. Postepy nauk roln 10 no. 2: 158 Mr-Ap '63.

SMIERZCHALSKA, Kryspina

Studies on the phosphorus uptake form rock phosphate based  
on the use of  $P^{32}$ . Rocznik roln rosl 87 no.2:331-356 '63.

1. Katedra Chemii Rolniczej, Szkoła Główna Gospodarstwa  
Wiejskiego, Warszawa.

SMIERZCHALSKA, K.

Organization and importance of soil research in the Netherlands.  
Postepy nauk roln 7 no.3:145-151 My-Je '60. (EEAI 9:12)

1. Instytut Uprawy, Nawożenia i Gleboznawstwa.  
(Netherlands--Soils)



SMIERZCHALSKA, Kryspina

Investigations into migration of phosphorus from granulated super-phosphate conducted by autoradiography. Postępy nauk roln 8 no.5: 37-42 S-0 '61.

1. Instytut Uprawy, Nawożenia i Gleboznawstwa, Pracownia Metodyczno-Nawozowa, [Warszawa] i Szkoła Główna Gospodarstwa Wiejskiego, Zakład Chemii Rolniczej, [Warszawa]; Kierownik prof. dr. M. Gorski.

(Fertilizers and manures) (Phosphates)

SMIERZCHALSKA, Kryspina

The problem of using multicomponent fertilizers. Postepy nauk roln 8  
no.6:3-14 '61.

(Fertilizers and manures)

SMIERZCHALSKA, K.

Prof. dr. Marian Gorski, 1886-1961; an obituary. Postepy nauk roln 8  
no.6:147-150 '61.

(Gorski, Marian) (Chemists, Polish)

SMIERZCHALSKA-WYSZYNSKA, Kryspina

Significance of the radiometric method in the interpretation of experiments with phosphorus fertilizing. Pt. 1. Rocznik nauk rolniczych 82 no.3: 689-714 '61.

1. Pracownia Metodyczno-Nawozowa, Instytut Uprawy, Nawożenia i Gleboznawstwa, Kierownik: prof. dr. M. Gorski.

BIRECKI, M.; DROESE, H.; KOWALSKI, St.; SMIERZCHALSKI, L.

Preliminary research on the possibility of applying shallow plowing and its proper application in crop rotation. Rocz nauk roln rosl 83 no.1:49-72 '60. (EEAI 10:7)

1. Szkoła Główna Gospodarstwa Wiejskiego, Warszawa.  
(Poland—Plowing) (Poland—Rotation of crops)

SMIERZCHALSKI, L.

"Alfalfa, clover and clover mixed with grass" by Wilhelm Simon.  
Reviewed by L. Smierzchalski. Postępy nauk roln 8 no.6:143-145 '61.

(Simon, Wilhelm) (Leguminosae)

BIRECKI, M.; DROESE, H.; KOWALSKI, S.; SMIERZCHALSKI, L.

Changes in the soil structure during the vegetation period under some plants demonstrated by different indexes. Rocz nauk roln rosl 83 no.4: 829-852 '61.

BIRECKI, M.; DROESE, H.; KOWALSKI, S.; ~~SMIERZCHALSKI, L.~~

Possibility of applying shallow ploughing and its proper application  
in crop rotation (preliminary results of field investigations). Pt. 2.  
Rocz nauk roln rosl 83 no.4:853-876 '61.



SMIERZCHALSKI, Leszek

Influence of various crop rotation links on the yields of successive crops and certain soil properties. Roczniki roln. 87 no.1:1-25 '62.

1. Zaklad Ogolnej Uprawy Roli i Roslin, Szkola Glowna Gospodarstwa Wiejskiego, Warszawa. Kierownik: prof. dr M. Birecki.

SVORAD,D.; SMIESKOVA,A.; KLIMENT,P.; SOMOGYI,J.

Influence of hippocampal lesions on conditioned reflex activity. *Activ. nerv. sup.* 6 no.1:36-37 '64.

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L 12947-66 EWT(1)/EWA(j)/EWA(b)-2 RO

ACC NR: AP6005642

SOURCE CODE: CZ/0079/65/007/002/0147/0148

AUTHOR: Svorad, D.; Smieskova, A.; Kubikova, M.

33B

ORG: Institute for Experimental Medicine, Slovak Academy of Sciences, Bratislava

TITLE: Effect of curare on sleep cycles in rats [This paper was presented at the Third Interdisciplinary Conference on Experimental and Clinical Study of Higher Nervous Functions held in Marianske Lazne from 19 to 23 October 1964.]

SOURCE: Activitas nervosa superior, v. 7, no. 2, 1965, 147-148

TOPIC TAGS: drug effect, rat, behavior pattern, cerebral cortex, EEG, nervous system drug

ABSTRACT: Experiments were carried out on 8 rats with electrodes implanted in the cerebral cortex, dorsal hippocampus and mesencephalic reticular formation. EEG was continuously recorded. Trachea was prepared and left in situ and again EEG recorded. Next day tracheotomy was made and 3.2 mg/kg body weight of curare was administered. EEG was recorded until the animal died. Curare affected the sleep phases, and the brain showed slightly marked high voltage activity with slow waves (rudimentary telencephalic sleep) which either lasted continually or was interrupted by electrical seizures, which later became manifest somatically. In some cases it was interrupted by spontaneous and frequently repeated arousal reactions. Curare did not cause changes in frequency or duration of electrical seizure or arousal reaction. Orig. art. has: 1 figure. JPRS/

SUB CODE: 06 / SUEN DATE: none / OTH REF: 004

Card 1/1 NW

L 12953-66

ACC NR: AP6005655

SOURCE CODE: CZ/0079/65/007/002/0164/0165

AUTHOR: Smieskova, A.; Svorad, D.

ORG: Institute for Experimental Medicine, Slovak Academy of Sciences, Bratislava

TITLE: Hippocampal lesion and retention of the active avoidance reaction [This paper was presented at the Third Interdisciplinary Conference on Experimental and Clinical Study of Higher Nervous Functions held in Marianske Lazne from 19 to 23 October 1964.]

SOURCE: Activitas nervosa superior, v. 7, no. 2, 1965, 164-165

TOPIC TAGS: conditioned reflex, rat, brain, behavior pattern

ABSTRACT: Importance of the hippocampus in conditioning is discussed. The most important factors in the lesion are: localization of the lesion, its extent, and length of recovery after operation. An active avoidance response was formed in rats. Unilateral lesion of the dorsal or ventral hippocampus did not impair retention of the reaction. Bilateral lesion produced significant changes, but only 3 days after the operation. 21 days after the operation the effect disappeared. Orig. art. has: 1 figure. [JPRS]

SUB CODE: 06 / SUBM DATE: none

Card 1/1

HW

L 29483-66

ACC NR: AP6019973

SOURCE CODE: CZ/0079/65/007/003/0257/0258

AUTHOR: Kubikova, M. (Bratislava); Svorad, D.; Smieskova, A.

ORG: Institute of Normal and Pathological Physiology, Bratislava

TITLE: Effect of <sup>22</sup>amphetamine on <sup>22</sup>hippocampal theta activity <sup>22</sup>[This paper was presented at the 7th Annual Psychopharmacological Meeting, Jesenik, 20-23 January 1965.]

SOURCE: Activitas nervosa superior, v. 7, no. 3, 1965, 257-258

TOPIC TAGS: rat, EEG, pharmacology

ABSTRACT: Experiments were conducted with rats; it was found that 72 hours of sleep deprivation induced by repeated intraperitoneal administration of amphetamine significantly disturbs normal periodicity of the synchronizing and desynchronizing mechanism. To compensate for the lack of sleep a mechanism is used by the body which activates the hippocampal EEG rhythm. Orig. art. has: 1 table. [Orig. art. in Eng.]  
[JPRS]

SUB CODE: 06 / SUBM DATE: none / ORIG REF: 001 / OTH REF: 005

Card 1/1 JS

E 29488-66

ACC NR: AP6020025

SOURCE CODE: CZ/0079/65/007/003/0309/0310

AUTHOR: Svorad, D. (Bratislava); Karmanova, D. I. G.; Smieskova, A.; Kubikova, M.

ORG: Institute of Normal and Pathological Physiology, Bratislava

TITLE: Changes in sleep<sup>22</sup> cycle after bulbocapnine<sup>22</sup> administration [This paper was presented at the 7th Annual Psychopharmacological Meeting, Jesenik, 20-23 January 1965.] 22  
B

SOURCE: Activitas nervosa superior, v. 7, no. 3, 1965, 309-310

TOPIC TAGS: rat, nervous system drug, pharmacology

ABSTRACT: Experiments were conducted on rats. Administration of bulbocapnine prevents the onset of sleep. The change in muscle tone is an important factor in triggering rhombencephalic sleep. Orig. art. has: 1 figure. [Orig. art. in Eng.] [JPRS]

SUB CODE: 06 / SUBM DATE: none / ORIG REF: 002 / OTH REF: 004  
SOV REF: 001

Card 1/1 JS

29489-66

ACC NR: AP6020026

SOURCE CODE: CZ/0079/65/007/003/0311/0311

AUTHOR: Smieskova, A. (Bratislava); Svorad, D.

ORG: Institute of Normal and Pathological Physiology, Bratislava

TITLE: Participation of the ventral and dorsal hippocampus in the retention of conditioned reaction in the course of bulbocapnine catalepsy [This paper was presented at the 7th Annual Psychopharmacological Meeting, Jesenik, 20-23 January 1965.]

SOURCE: Activitas nervosa superior, v. 7, no. 3, 1965, 311

TOPIC TAGS: conditioned reflex, brain, rat, neurophysiology

ABSTRACT: The importance of three variables were tested in rats: localization of the electrolytic lesion (either in the ventral or the dorsal hippocampus), extent of lesion (uni- or bilaterally damaged hippocampus), and the amount of bulbocapnine administered. No differences due to location of the lesion were found; the extent of the lesions did not have any influence. Significant changes were due to the changes in the amount of the drug administered (5, 15, 30 mg/kg). [Orig. art. in Eng.] [JPRS]

SUB CODE: 06 / SUBM DATE: none / ORIG REF: 004 / OTH REF: 004

Card 1/1 JS

CZECHOSLOVAKIA

SVORAD, D., WEBB, W.B., SMIESKOVA, A: Institute of Normal and Pathological Physiology, Slovak Academy of Sciences (Ustav Normalnej a Patologickej Fyziologie SAV), Bratislava.

"Differences in the EEG Sleep Picture of Man and Rat."

Prague, Ceskoslovenska Fysiologie, Vol 15, No 2, Feb 66, pp 133-134

Abstract: 16 healthy men, 21 to 31 years old, and 8 rats were investigated with EEG for 3 successive nights. In man, the length of individual stages of sleep is permanent, in rat it changes. The sequence of the stages of sleep and their distribution in certain time intervals are very similar in man and rat. 1 Figure, 2 Western references. Submitted at the "4th Czechoslovak Bioclimatical Conference" at Brno, 11 Oct 65.

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SZYMCZYK, Antoni, inż.; HELM, Kazimierz, technik; SMIESZEK, Jerzy, technik;  
GAWRON, Lucjan, technik.

Design for imbedding the Ruths heat chamber to obtain saturated  
steam for the hoisting machinery in Kazimierz I pit shaft.  
Gosp paliw 11 Special issue no.(95):39 Ja '63.

1. Kopalnia Miwka, Modrzejow.

SNIESZKOL, G.

4  
The Possibility of Increased Production of the Sedzimir Mill. W. Leskiewicz, Z. Jaglarz and G. Smieszkal. (Hutnik, 1958, 23, (6), 197-202). [In Polish]. The authors discuss in some detail the possibilities of increased output of Sedzimir rolling mills. Their main recommendation is a change from cold to hot rolling, e.g. a.

RB  
02/

SIEMTA A. H.

A new kind of solid lubricants, p. 135

Wiadomosci Naftowe. (Stowarzyszenie Naukowo-Techniczne Inzynieron i  
Technikow Przemysly Naftowego i Zwiazke Zawodowego Gornikow Naftowcon)  
Krosno, Poland Vol. 5, no.6, June 1959

Monthly list of East European Accessions (EEAI) L7, Vol./no. 2,  
Feb. 19<sup>9</sup>60

Uncl.

S/081/62/000/012/048/063  
B156/B144

AUTHOR: Smietana, Mieczysław

TITLE: Plastic lubricants produced from mixed soaps

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 12, 1962, 508, abstract  
12M204 (Wiadom. naft., v. 6, no. 12, 1960, 273 - 275)

TEXT: The basic aspects of using soaps in the production of lubricants are set forth. The effects of adding Mg, Ca, Zn, Cd or other soaps on the properties of Na-lubricants are described. Particulars of several lubricants prepared at the works in Czechowicy, Poland, are given. The LT2 antifriction lubricant for bearing which contains 12.5% Na soap and 3% Ca soap, has considerably higher mechanical strength ~~than~~ that based on Na-soaps of the same consistency, also better colloidal and thermal stabilities. The NK-30 lubricant, intended for components of aircraft controls and friction units working at temperatures between -60 and +85°C, contains 95% of Na soap and 5% of Ca soap; it also contains Na acetate for stabilizing the system, and Pb soap which improves the strength of the film of lubricant. The LTI-13 lubricant for bearings of rolling stock contains

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Plastic lubricants produced ...

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75% of Na soap and 25% of Ca soap. This lubricant is effective at high temperatures and has good colloidal stability. The CSW soap contains 70% of Na soap and 30% of Ca soap. The introduction of Na soap into Ca lubricants has enabled the amount of thickener to be reduced from 16 to 12%, the consistency remaining unchanged, besides which the oil is prevented from separating out. [Abstracter's note: Complete translation.]

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SMIETANA, Mieczyslaw

Lubricants prepared on mixed soaps. Wiad naft 7 no.2:29-31 F '61.  
(EEAI 10:5)

(Lubrication and lubricants) (Soap)

SMIETANA, Mieczyslaw, mgr. inż.

Lubrication greases based on bentonite thickener.  
Nafta 18 no.4:104-107 Ap '62.

1. Rafineria Nafty, Czechowice.

SMIETANKO, Zbigniew, inz.

Single-layer method of performing preventive repairs of the heart by using granular magnesite and magnesite powder. Wiad hut 15 [i.e. 20] no. 4: 105-108 Ap '64.



1. *Plankton*, 1964

Effect of unsaturated fatty acids on cholesterol metabolism  
in the rat. *J. Lipid. Res.* 5: 34-40, 1964.

2. *Plankton*, 1964. *Plankton* (ed. by M. J. R. Cantwell)  
Lancaster (The Science Press, Gr. Med. J. Aleksandrow).

SMIETANSKA, Zofia

Modern views on diagnostic and therapeutic application of isotopes.  
Polskie arch. med. wewn. 29 no.4:529-542 1959.

1. Z II Kliniki Chorob Wewnętrznych Akademii Medycznej w Warszawie  
Kierownik: prof. dr med. D. Aleksandrow.  
(RADIOISOTOPES)

KLOPOTOWSKI, T.; SMIETAWSKA, Zofia

Increase of lipid synthesis in rat liver by means of a diet containing soy oil. Acta biochim.polon. 7 no.1:21-28 '60.

1. II. Klinika Chorob Wewnętrznych Akademii Medycznej, Warszawa.  
Kierownik: prof.dr med. D. Aleksandrow, Pracownia Izotopowa  
Instytutu Gruzlicy, Kierownik: doc.dr med. W. Tysarowski.

(LIVER metab.)

(LIPIDS metab.)

(OILS)

(SOY BEAN)

SMIETANSKA, Zofia

Effect of some dietary fats on the synthesis and level of fatty acids in the rat liver. Pol. arch. med. wewnet. 34 no.12:1629-1632 '64.

1. Z II Kliniki Chorob Wewnetrznych Akademii Medycznej w Warszawie (Kierownik: prof. dr. med. D. Aleksandrow).

KRAJEWSKI, Roman, prof., dr., inż.; SMIETANSKI, Zdzisław, mgr., inż.

Mining of rock salt deposits by leaching holes. Przegl gorn 17  
no.10:532-537 0 '61.

SMIGALSKIJ, V. ; Janovjak, S.

Stiffening concrete by vibration and the electromagnetic vibrators. p. 98.

INZENYRSKE, STAVBY. (Ministerstvo stavebnictvi) Praha, Czechoslovakia.  
Vol. 7, no. 9, Sept. 1959.

Monthly List of East European Accessions (EEAI) LC Vol. 8, no. 11, Nov. 1959  
Uncl.

S/190/63/005/004/001/020  
B101/B220

AUTHORS: Mezhirova, L. P., Smigasevich, Z., Sheynker, A. P., Abkin, A. D.

TITLE: Carbanion mechanism of gamma ray initiated polymerization

PERIODICAL: Vysokomolekulyarnyye soyedineniya, v. 5, no. 4, 1963, 473-478

TEXT: The  $\text{Co}^{60}$  gamma ray initiated polymerization of acrylonitrile (AN) and copolymerization of AN with styrene (St) and methyl methacrylate (MMA) are discussed. Results: (1) At  $-78^{\circ}\text{C}$  the polymerization of AN initiated by gamma irradiation was successful in triethyl amine only, while at  $0^{\circ}\text{C}$  the electron donor or acceptor properties of the solvents (triethyl amine, ethyl chloride, acetonitrile or butyronitrile) had no effect on the polymerization. (2) When copolymerization of AN with St was initiated by gamma rays, copolymers enriched with AN formed at low temperatures, while at normal temperatures an azeotrope characteristic of the radical polymerization of these monomers was formed. (3) Copolymerization of AN with MMA, initiated by gamma rays, yielded in triethyl amine at  $-78^{\circ}\text{C}$  a polymer enriched with AN, independently of the initial ratio of the monomers.  
 $r_{\text{AN}} = 7.0$ ,  $r_{\text{MMA}} = 0.05$ , these values being close to those for catalytic

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Carbanion mechanism of gamma ray ...

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anionic polymerization. (4) The kinetics differs from that of radical polymerization. MMA polymerizes more slowly ( $0.04 \cdot 10^{-5}$  mole/l·sec) than AN ( $0.96 \cdot 10^{-5}$  mole/l·sec). (5) These differences confirm the carbanion mechanism suggested by the authors for the polymerization and copolymerization of AN by gamma irradiation at low temperatures. There are 3 figures and 2 tables.

ASSOCIATION: Fiziko-khimicheskiy institut im. L. Ya. Karpova (Physico-chemical Institute imeni L. Ya. Karpov)

SUBMITTED: August 26, 1961

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~~SMIGELSKI, O.~~ SMIGELSKI, O.

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SUB CODE: 06 / SUBM DATE: none

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(Metal crystals)

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